

## Human SP-D Antibody Pair Set

<b>Catalog No.</b>	E-KAB-0258	<b>Applications</b>	ELISA
<b>Synonyms</b>	SFTPD, COLEC7, PSP-D, SFTP4, SP-D, surfactant protein D, Lung surfactant protein D, Collectin-7, Pulmonary surfactant-associated protein D		

### Kit components & Storage

Title	Specifications	Storage
Human SP-D Capture Antibody	1 vial, 100 µg	Store at -20°C for one year. Avoid freeze / thaw cycles.
Human SP-D Detection Antibody (Biotin)	1 vial, 50 µL	Store at -20°C for one year. Avoid freeze / thaw cycles.

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

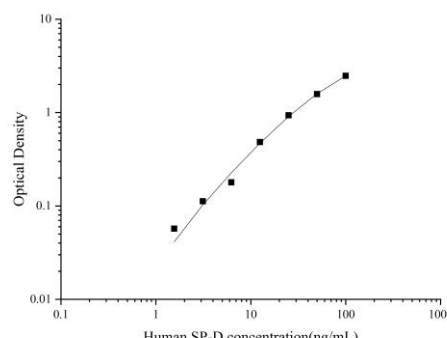
### Product Information

Items		Characteristic (E-KAB-0258)	
		Human SP-D Capture Antibody	Human SP-D Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Human SP-D protein	Recombinant Human SP-D protein
	Swissprot	P35247	
Product details	Reactivity	Human	Human
	Host	Rabbit	Mouse
	Conjugation	Unconjugated	Biotin
	Concentration	0.5mg/mL	/
	Buffer	PBS with 0.04% Proclin 300, 50% glycerol, pH 7.4	PBS with 0.04% Proclin 300, 1% protective protein, 50% glycerol, pH 7.4
	Purify	Protein A	Protein A or G
	Specificity	Detects Human SP-D in ELISAs.	

### For Research Use Only

## Applications

### Human SP-D Sandwich ELISA Assay:

	Recommended Concentration/Dilution	Reagent	Images																
ELISA Capture	0.5-4µg/mL	Human SP-D Capture Antibody	 <table><caption>Approximate data points from the standard curve</caption><thead><tr><th>Human SP-D concentration (ng/mL)</th><th>Optical Density</th></tr></thead><tbody><tr><td>1</td><td>0.05</td></tr><tr><td>2</td><td>0.1</td></tr><tr><td>5</td><td>0.2</td></tr><tr><td>10</td><td>0.4</td></tr><tr><td>20</td><td>0.8</td></tr><tr><td>50</td><td>1.5</td></tr><tr><td>100</td><td>2.5</td></tr></tbody></table>	Human SP-D concentration (ng/mL)	Optical Density	1	0.05	2	0.1	5	0.2	10	0.4	20	0.8	50	1.5	100	2.5
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ELISA Detection	1:1000-1:10000	Human SP-D Detection Antibody (Biotin)																	

**Note:** This standard curve is only for demonstration purposes. A standard curve should be generated for each assay!

## Background

Surfactant, pulmonary-associated protein D, also known as SFTPD or SP-D, is a protein which in humans is encoded by the SFTPD gene. SFTPD is an innate immune system collectin. Surfactant protein D has been shown to interact with DMBT1. Contributes to the lung's defense against inhaled microorganisms. May participate in the extracellular reorganization or turnover of pulmonary surfactant. Binds strongly maltose residues and to a lesser extent other alpha-glucosyl moieties.

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